

SEQUENCE LISTING

<110> MARINE BIOTECHNOLOGY INSTITUTE CO., LTD.

<120> NOVEL CHEMICAL SUBSTANCE HAVING MORPHOGENETIC AND GROWTH-ACCELERATING ACTIVITIES

<130> PH-1841-PCT

<150> JP2002/203608

<151> 2002-7-12

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 190

<212> DNA

<213> *Tenacibaculum* sp.

<400> 1

CCTACGGGAG GCAGCAGTGA GGAATATTGG TCAATGGAGG CAACTCTGAA CCAGCCATGC 60
CCCGTGTAGG AAGACTGCCC TATGGGTGT AAACTACTTT TATATGGGAA GAAACCCCTC 120
TTACGTGTAG AGGCTTGACG GTACCATAAG AATAAGCACC GGCTAACTCC GTGCCAGCAG 180
CCGCGGTAAT 190

<210> 2

<211> 189

<212> DNA

<213> Unknown

<400> 2

CCTACGGGAG GCAGCAGTGA GGAATATTGG ACAATGGCG GGAGCCTGAT CCAGCCATGC 60
CGCGTGCAGG AAGAAGGCC C TATGGTCGT AAACCGCTT TATAACGGAA GAAACCACCC 120
TACGTGTAAG GTACTGACGG TACCGTAAGA ATAAGGACCG GCTAACTCCG TGCCAGCAGC 180
CGCGGTAAT 189

<210> 3

<211> 1173

<212> DNA

<213> *Tenacibaculum* sp.

<400> 3

GTATCTGGAG GTTTACACGG AGTTGGTGTGATCTTGTGTGA ATGCACTTTC AGATCATTAA 60
AAAGCTACAG TTACAGAGA AGGTAAAATA TGGGAACAAG AGTATGAACG TGGTAAAACA 120
CTTTATCCTG TAAAAACTGT AGGTGAAACT GATATAACTG GTACAGAACT AACTTTCTTA 180
CCAGACAAAAA GTATTTCCA ACAAAACCACA GAATATAATT ACGAAACGTT AGCTACACGT 240
ATGCCGTGAGT TAGCGTATCT TAATAAAGGA ATCACGATTA CGTTAACAGA TAAGCGTAAT 300
AAAGATGATG AAGGAAATT TATTGCTGAA ACTTTCCACA GTAACGAAGG ATTATCTGAA 360
TTTGTAAAT ATTAGATAG TACTCGTACT CCTGTTATTC AGCATGTAAT TTCAATGGAA 420
GGTGAGAAAAA ACGGAATTCC TGTTGAGGTT GCAATGATTT ATAATGATTCA ATATGCTGAA 480
AATTTACATT CTTATGTAAA TAACATTAAT ACTCACGAAG GAGGAACACA TTTATCAGGA 540
TTTAGAAGAG GTTTAACAAAG TACTTTAAAG AAATATGCAG ATACTTCTGG ATTACTAAAG 600
AACGTAAAGT TTGAGATTT TGGAGATGAT TTCCGTGAAG GTTTAACGGC AATTGTATCT 660
GTAAAAGTAG CTGAACCTCA GTTTGAAGGA CAAACAAAAA CAAAATTAGG AAACAGAGAA 720
GTTACTTCTG CAGTATCGCA AGCTGTAGCA GAAATGTTAA CTGATTATTT AGAGGAAAT 780
CCTAATGATG CTAAAACGAT TGTACAAAAA GTAATTCTTG CAGCTCAAGC GCGTCACGCA 840

GCTCGTAAAG CAAGAGAAAT GGTGCAACGT AAAACAGTAA TGAGTATTGG AGGTTACCT 900
GGTAAACTAT CTGATTGTT TGAAACTGAT CCAGCAGTT GTGAAATTT CTTAGTCGAG 960
GGAGATTCCG CAGGTGGAAC TGCAAAACAA GGTCGTGATC GTAATTCCA AGCAATTAA 1020
CCCTTACGTG GTAAGATTCT TAACGTAGAA AAAGCGATGC AGCATAAAGT TTTTGAGAAT 1080
GAAGAAATCA AAAACATGTT TACGGCTTA GGAATCACTA TCGGAACAGA AGAAGATCCA 1140
AGAGCATTAA ACTTATCAAAT ATTAAGATAT CAT 1173

<210> 4

<211> 1173

<212> DNA

<213> Unknown

<400> 4

GTATCCGGTG GTTGACCGG GGTAGGTGTT TCTTGTGTGA ACGCCCTTTC CAATCATCTT 60
AAAGCTACCG TACATAGAGA TGGGAAAGTT TGGGAACAGG AATATGAACG GGGTAAATCC 120
CTTTATCCCG TAAAAAGTGT TGGGGAGACC GATGAAACTG GAACCATTGT TACCTTCATA 180
CCAGATGATT CAATCTTAC CCAAACAACA GAGTATAGTT ATGAGACCCCT TGCCAACAGA 240
ATCCGTGAGC TTTCCGTCTT GAACAAAGGG GTTACCATTA GCATTACCGA CAAAAGACTA 300
AAGGATAAAAG AAGGGGAGTA CCTTTCTGAA ACTTTTATT CCGATGCTGG ACTAAGTGAA 360
TTTGTAAAGT TCTTGGATGG TACCCGTGAA CCTTGATTG AAGGGGTTAT CGCGATGGAA 420
GGGGAGAAAA ATGGTATCCC TGTGGAAGTG GCAATGGTT ACAACACCAAG TTACACGGAG 480
AATTACATT CCTATGTGAA TAACATTAAC ACGCACGAAG GGGGTACGCA TCTTCCGGT 540
TTTAGAAGGG GATTGACCTC TACTTAAAG AAATACGCAG ATTCTTCTGG AATGCTCGAG 600
AAATTGAAGT TTGAGGTTCA GGGAGATGAT TTCCGTGAAG GACTTACAGC AATTGTTCC 660
GTAAAGGTCG CAGAACCTCA ATTGAAAGGT CAGACGAAAA CCAAGCTTGG AAACCGCGAG 720
GTTTCTTCTG CGGTGAGCCA AGCTGTTCT GAAATGCTCA CGGATTATT GGAGGAGCAT 780
CCAGATGATG CCAAGGTTAT TGTCAAAAAA GTTATCCTG CCGCTCAGGC CAGACATGCC 840
GCTACAAAGG CCCGTGAAAT GGTACAGCGT AAGACGGTAA TGAGTATTGG TGGGCTACCT 900
GGAAAATTGT CCGATTGTT TGAGCAAGAT CCTGCGCAAT GTGAAGTATT TCTTGTAGAG 960

GGAGATTCTG CAGGTGGTAC GGCAAAATG GGCGGGACC GAAAATTCA GGCCATTCTT 1020
CCACTAAGGG GTAAAATCTT GAACGTGGAA AAAGCCATGC AGCACAAAGGT TTTGAAAAT 1080
GAGGAAATAA AGAATATTAA TACGGCCCTA GGGGTTACTA TTGGAACGGA AGAAGATAGT 1140
AAGGCCTTGA ACCTGGAAAA ATTAAGATAT CAT 1173